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MONTHLY REPORT

25X1

PAR 211

2 Oct 64

SUBJECT: Microdensitometer Study of Effects of Processing

TASK/PROBLEM

1. Collect and study microdensitometric data from mission materials in an attempt to determine the effect of film emulsions, processing, and printing on the characteristics of image edges. Also, attempt to determine true location of image edges for mensuration purposes.

DISCUSSION

2. Several runs have been made in the sensitometric processor on 4400, 4401, and 4404 films having modulation transfer, low contrast resolving power, acutance, and granularity exposures. These films are now being evaluated.

3. The microdensitometer was modified to permit direct punching of data for use in acutance and granularity measurements.

4. A 1620 computer program for acutance calculation was written to use the direct punched data. This program is being tested and will be adapted to run in the 7044 computer also for more economical data reduction.

5. Briefing aids are being prepared to illustrate the basic steps of this study.

PLANNED ACTIVITIES

6. The study of the relationship between film image structure and processing will be continued.

7. Preparation of briefing aids will be closely followed, and their status reviewed in the next report.

Declass Review by NGA.

**GROUP 1**  
**Excluded from automatic downgrad-**  
**Apping and declassification**

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